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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Guenther, Catherine

Examiner:

Wilson, Michael C.

Serial No.:

09/883,093

Group Art Unit:

1632

Filed:

June 14, 2001

Docket No.:

R126/75658.241

Confirmation No.:

7936

Title:

Transgenic Mice Containing Nuclear Hormone Receptor Gene Disruptions

## DECLARATION OF JOHN BURKE PURSUANT TO 37 C.F.R. § 1.132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

I, John E. Burke, residing at 16357 E. Berry Avenue, Centennial CO 80015, hereby declare:

1. I am currently, and have been since 1998, the Attorney of Record for the Applicant and Assignee, Deltagen, Inc. I am listed on the originally filed Power of Attorney for the present application. From December 1996 to December 1999, I was Of Counsel with the law firm of Pillsbury Madison & Sutro (currently Pillsbury Winthrop) where I represented Deltagen with respect to intellectual property matters, including patent matters relating to their transgenic mouse program. From December 1999 until December 2001, I served as Deltagen's Vice President of Intellectual Property, where I supervised Deltagen's internal patent department. All of the applications, including the present application, covering the 750 lines of mice in DeltaBase were drafted by Deltagen's patent department. From December 2001 until April 2003, I served as Deltagen's Senior Vice President and General Counsel. From April 2003 through April 2005, I was a partner with the Denver office of Merchant & Gould, where I continued to represent Deltagen with regard to intellectual matters, including patent matters. I am presently employed as a Shareholder with the Denver office of the law firm of Greenberg Traurig, where I am

responsible for prosecution of Deltagens's patent portfolio relating to their transgenic mice program, including the present application.

- 2. I am familiar with the present application. I am familiar with the Final Office Action mailed October 6, 2005. I am aware that the Examiner has rejected the claims, in part, for allegedly failing to meet the utility and enablement requirements. I am aware that the Examiner has argued that the specification does not disclose what generation mice were used or what wild-type controls were used in the phenotypic analyses.
- 3. I hereby declare that, as evidenced by the attached Exhibit, the subject matter of the present application, mCAR2 gene knockout mice, were compared with control mice of identical background.
- 4. I hereby declare that the claimed mCAR2 gene knockout mouse has been extensively analyzed using the tests set forth in the Examples. This data has been incorporated into Deltagen's commercial database product, DeltaBase.
- 5. I hereby declare that I have accessed Deltagen's internal web-based DeltaBase database to review the data derived from analyses of the claimed mice. I hereby declare that the attached Exhibit contains three (3) pages, representing screen printouts from DeltaBase.
- 6. Exhibit pages 1 and 2 represent a series of screen shots of the Histopathology Summary for the mCAR2 gene. As shown, the mCAR2 gene has been internally designated as Gene 126. The Accession number is referred to at the top of the page (AF009328). According to the Summary, changes that may be related to genotype include lymphoid depletion of the thymus. The Summary further notes that the "changes seen in the thymuses of affected animals are suggestive of thymic dysplasia; however, severe atrophy cannot be ruled out."
- 7. Exhibit page 3 shows the raw histopathology data, and more specifically, the recorded observations for the thymus. Column 1 indicates the gene number 126; column 2 indicates the

ES cell line 200; column 3 indicates the genotype; column 4 indicates the sex of the subject mouse and column 6 indicates the mouse ID number. All of the mice are of the same generation, F2N0. Thus, the homozygous (-/-), heterozygous (+/-) and wild type mice (+/+) were derived from the same ES cell line, and are of the same F and N generation. Thus, the mice were compared with mice of the same background.

8. I further declare that all statements made herein of my own knowledge are true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or any patent issuing thereon.

JUR	
John E. Burke, Reg. No. 35,836	
3-30-06	
Date	







